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Department of Commerce and Cabor - COAST AND GEODETIC SURVEY
O. St. Tittura un Superintendent.
State: alaska
DESCRIPTIVE REPORT.
Sheet No. 3696
LOCALITY:
Inshahwim TO
Lower Part
1914
CHIEF OF PARTY:
11-4645 D. T. Luhens.

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Descriptive Report of Field Sheet 3696

Topographic and Hydrographic

Scale 1; 20.000

This sheet covers the Eastern side of the river in the vicinity of Eek Island.

The geographic datum depends on Sta. Beacon, which was located by a three point fix on the distant mountains.

The azimuth controlling the triangulation system was measured at Apokak.

The hydrography covers the usual route from Eek channel in the middle of the river, to Beacon Point, and thence along the shore and across to the North side of Eek Island.

A tide staff and an automatic gauge were located in the slough at Apokak from which allthe tidal reduction were made.

The topography was executed by Messrs. Smith and Sutcliffe. The shore is all very low and covered with tundra and without detail. On the high tides during a Southerly storm, the banks often overflow, and the country is covered for miles around. The natives have summer villages along the river, but go inland several miles to spend the winters.

The channel off Apokak appears to be well protected, but such is not the case.

During a storm and at low tide a very heavy swell sweeps up this channel. The

YUKON often rolled her rails under while anchored here. On the large tides the

flood current is much stronger than the Eeb, and it is then when it is difficult

to keep a vessel from dragging her anchor. There is anchorage in this vicinity

where a vessel can ride a storm with ease. It is practically impossible for

river boats to operate in this lower river.

List of positions scaled from sheet 3696

By theodolite and sextant cuts plotted graphically 1914

	Latitude seconds in meters			Longitude seconds in meters				
Name							Remarks	
Sut	6 0	09	500	162	17	438	Washed away	
Cliff	60	08	1245	162	17	186	H H	
Lean	60	08	315	162	18	125	Not recoverable	
Tow	60	08	828	162	17	495	Probably washed away	
Town	60	06	1737	162	17	470	n n	
Lu k	60	Q 5	1788 🗸	162	18	398	12 27	
Range	60	-05	663	162	19	594	Tripod beacon	
Drift	. 60	05	17	162	19	437	Pole signal	

Datum depends on position of Beacon, as located by three point fix on the distant mountains. (Eek Island Datum)

Statistics for Field Sheet 3696

Scale 1 : 20,000

D	ay	Statue Miles	Positions	Soundings	
		Launch AL	РНА		
•	A	43.0	69	397	
	В	16.0	97	525	
	C	20.0	113	658	
	D	10.0	48	314	
		Steamer Y	UKON		
	F	7.0	19	127	•
	Н	8.9	39	229	
	J	11.0	55	309	
	K	39.0	164	984	
1.	L	9.0	44	222	
	R	1.5	7	28 = 18 =	
	T Total fo	11.5 or sheet 146.0	14 66 9	7 <u>1</u> 3864	

Launch party, R.R.Lukens, Asst. in charge, Rt. angle and plotting W.D.Sutcliffe, Aid, Left angle H.H.Townsend, Chief Writer, Recording

Ship party, R.R.Lukens Asst, and E.E.Smith Asst, in charge W.D.Sutcliffe, Aid, Left angle.
H.H.Townsend, C.W. Left angle and recording.

Positions plotted by W.D.Sutcliffe
Projection by W.D.Sutcliffe, verified by E.E.Smith.
Signals by W.D.Sutcliffe
Soundings plotted by W.D.Sutcliffe

HYDROGRAPHIC SHEET 3696.

Kuskokwim River, Alaska, by Assistant R.R.Lukens in 1914.

TIDES.

			Apokok ft.
Mean lower low water, plane of reference	or	staff	2.7
Lowest tide observed	Ħ	11	1.1
Highest " "	11	n,	18.0
Mean range of tide			9.4

Hyd Shut # 3696 Duskokum Piver Alaska.

The positions for the work on this sheet were protocoled by the Field Porty and, in general, have been taken as correct: humerous checkwas honener made in order to reconcile conditions which appeared in Error. The soundings were platted by the field porty.

The work in general might be considered good for recognizance work but certain condition develop which would indicate error when in angle or signal or both and which ordinary as justment fail to Correct. This is particular the case in the Channel abouth of beh Id. In this case careful platting develop two lines of deep soundings with two lines of shoul sombings between, which condition, according to Ast. Lubin, is improbable; The Channel, according to Asst. Luken, and which the platting would indicate, is close to the north shores of Each Id. I'm Channel is narrow and therefore it seemes, that the shoul lines refund to should be platted farther north. However this would appear of lettle importance as I feet seems to but he maximum depth that can be taken over the shoul below.

Additional work in this location would appear admisable

Capt Tustena mus in the Office then this when tras Johnson klother & consulted frequently 2/15/15.